Rittal – The System.

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Filterlüfter
Fan-and-filter unit
Ventilateur à filtre
Ventilator
Filterfläkt
Ventilatore-filtro
Ventilador con filtro

フィルターファン

SK 3237.xxx SK 3241.xxx SK 3238.xxx SK 3243.xxx SK 3239.xxx SK 3244.xxx SK 3240.xxx SK 3245.xxx

Montage-, Installations- und Bedienungsanleitung Assembly and operating instructions Notice d'emploi, d'installation et de montage Montage- en bedieningshandleiding Montage- och hanteringsanvisning Istruzioni di montaggio e funzionamento Instrucciones de montaje y funcionamiento 取扱説明書



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1 Notes on documentation

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1 Notes on documentation

These assembly instructions are aimed at tradespersons who are familiar with assembly and installation of the fan-and-filter unit, and at trained specialists who are familiar with operation of the fan-and-filter unit

1.1 Other applicable documents

There is one set of instructions for the unit types described here:

 Assembly, installation and operating instructions enclosed with the unit as a printed document and/or on CD-ROM.

We cannot accept any liability for damage associated with failure to observe these instructions. The instructions for the accessories used should also be observed where applicable.

1.2 Storing the documents

These instructions and all associated documents are part of the product. They must be given to the plant operator. The operator is responsible for storage of the documents so they are readily available when needed.

1.3 Symbols used

Please observe the following safety instructions and other notes in this guide:

Symbol for an instructed action:

• The bullet point indicates that you should perform an action.

Safety and other notes:



Danger! Immediate danger to life and limb!



Caution!

Potential threat to the product and its environment.



Note:

Useful information and special features.

2 Safety notes

2 Safety notes

Please observe the following general safety notes when assembling and operating the unit:

- Assembly, installation and servicing may only be performed by properly trained specialists.
- Do not obstruct the air inlet and outlet of the fan-and-filter unit inside and outside the enclosure (see also section "4.2.2 Layout of the components in the enclosure", page 7).
- The heat loss of the components installed in the enclosure must not exceed the specific air throughput of the fan-and-filter unit.
- Fan-and-filter units must always be installed on vertical panels (door or walls).
- The louvres must always have their opening pointing downwards.
- Use only original spare parts and accessories
- Do not make any changes to the fanand-filter unit other than those described in these and other applicable instructions.
- The fan-and-filter unit must only be connected to the mains with the system de-energised. Connect the pre-fuse specified on the rating plate.
- Changes to the direction of airflow must only be carried out with the system deenergised.
- Changes to the positioning of the mains connection must only be carried out with the system de-energised.
- Never insert your fingers into the rotating fan wheel.
- Electrical connection and any repairs may only be carried out by authorised specialist personnel.

3 Device description

Depending on the model chosen, your fanand-filter unit may vary in appearance from the illustrations contained in these instructions. However, the functions are identical in principle.

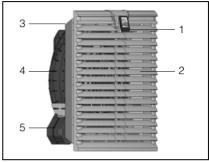


Fig. 1: Device description

Key

- 1 Function logo (to release the louvred grille)
- 2 Louvred grille
- 3 Filter box with filter mat
- 4 Fan housing
- Variable electrical connection

3.1 Functional description

The fan-and-filter unit in conjunction with the corresponding outlet filter(s) is used to dissipate heat loss from enclosures and ventilate the enclosure, thereby protecting temperature-sensitive components. This is achieved via the direct infeed of ambient air, the temperature of which must be less than the admissible enclosure interior temperature. The system is fitted into prepared cut-outs in the door or walls of the enclosure

3.1.1 How it works

The fan-and-filter unit is comprised of the following four main components: Fan motor, filter box, louvred grille with function logo and filter medium.

3 Device description

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3.1.2 Control

Rittal fan-and-filter units may be controlled more efficiently using a thermostat (Model No. SK 3110.000), digital temperature display (Model No. SK 3114.200), temperature-dependent speed control (Model No. SK 3120.200) and/or hygrostat (Model No. SK 3118.000).

Control unit (Model No. SK 3235.440) for fan-and-filter unit SK 3245.xxx only.

3.1.3 Safety equipment

The fan is equipped with thermal winding protection devices for protection against excess current and even, in some cases, against overtemperature. For rotary current fans, the winding protection is located in the star earthing of the motor.

3.1.4 Filter mats

The fan-and-filter unit/outlet filter is supplied with a standard filter mat already installed. Depending on the incidence of dust, you will need to replace the filter mat from time to time.

In order to increase the protection category, and in the case of dust with a grain size of < 10 μ m, we recommend the use of fine filter mats



Note:

The air throughput volume will be reduced.
Special filter mats are required for EMC fan-and-filter units (see accessories).

3.2 Proper use

Rittal fan-and-filter units were developed and designed in accordance with the state of the art and the recognised rules governing technical safety. Nevertheless. if used improperly, they may pose a threat to life and limb or cause damage to property. The unit is only intended for ventilating enclosures and electronic cases. Any other use is deemed improper. The manufacturer will not be liable for any damages caused as a result of improper use, or for incorrect assembly, installation or use. All risk is borne solely by the user. Proper usage also includes the observation of all valid documents and compliance with the inspection and servicing

3.3 Scope of supply

conditions.

The fan is supplied in a packaging unit in a fully assembled state and ready to connect

Please check the scope of supply for completeness.

Qty.	Description
1	Fan-and-filter unit
1	 Mounting screws (not for SK 3237.1xx to SK 3239.1xx) Assembly, installation and operating instructions
1	Drilling template, self-adhesive

Tab. 1: Scope of supply

4 Assembly and connection

4 Assembly and connection

4.1 Choosing the installation site

When choosing the installation site for the enclosure, please observe the following:

- The site for the enclosure, and hence the arrangement of the fan-and-filter unit, must be carefully selected so as to ensure good ventilation.
- The site must be free from excessive dirt and moisture.
- The ambient temperature must be lower than the permissible enclosure interior temperature.
- The mains connection data as stated on the rating plate of the unit must be guaranteed.

4.2 Assembly instructions

4.2.1 General

- Check that the packaging does not show any signs of damage. Packaging damage may be the cause of a subsequent functional failure.
- The fan-and-filter unit and outlet filter must always be mounted on an enclosure in order to ensure air exchange.



Note:

The outlet filter should be at least the same size as the fan-and-filter unit.

 The enclosure must be sealed on all sides (IP 54). If the enclosure has a leak, unfiltered, contaminated air may enter the enclosure, depending on the direction of airflow of the fan.

4.2.2 Layout of the components in the enclosure

Exercise particular caution with the airflow from the blowers of built-in components. For installation, it is important to ensure that the airflows of fans and built-in components do not have a negative influence on one another (air short-circuit).

The corresponding minimum distances between the fan and component must be observed in order to ensure unhindered air circulation.

4.3 Fitting the fan-and-filter unit or outlet filter

The fan-and-filter unit or outlet filter is mounted on a vertical panel of the enclosure:

 For this purpose, the appropriate door, side or rear panel must be cut out using the supplied drilling template.

The fan-and-filter unit is generally fitted in the lower part of the enclosure, and the outlet filter in the upper part.

4.3.1 Cutting out the enclosure

 Stick the supplied self-adhesive drilling template to the envisaged position on the door, side or rear panel of the enclosure

There are dimensioning lines on the drilling plate for the cut-out and for the holes required for mounting and securing the fan, depending on the metal thickness (cf. also Fig. 8 and Fig. 9, page 16).



Risk of injury! Carefully deburr all cut-outs to prevent injuries caused by sharp edges.

 Make the cut-outs including the line width as per the drilling template.
 Deburr the cut-outs.

4.3.2 Fitting the fan-and-filter unit

- The fan may be fitted without tools, by simply snapping into the preconfigured mounting cut-out.
- However, if the metal thickness is greater than 3 mm, the fan will need to be screw-fastened. To this end, remove the louvred grille in order to gain access to the lower mounting holes.

4 Assembly and connection

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Fig. 2: Remove the louvred grille

- If transporting over long distances or to a different installation site, we strongly recommend that you screw-fasten the fan to prevent it from falling out of the mounting cut-out.
- The fan-and-filter unit is a rotating component that may transfer vibrations and oscillations. Suitable design measures to dampen vibrations should be implemented in advance before constructing the system.
- The protection category can be increased by means of the following accessories:
 - IP 55 by using an additional fine filter mat or hose-proof hood.
 - IP 56 by using a hose-proof hood.



Note:

To increase the protection category, an additional fine filter mat or hose-proof hood must be used in both the fan-andfilter unit and the outlet filter.

4.4 Notes on electrical installation

When performing the electrical installation, it is important to observe all valid national and regional regulations as well as the provisions of the responsible power supply company. Electrical installation must only be carried out by a qualified electrician who is responsible for compliance with the existing standards and regulations.

4.4.1 Connection data

- The voltage and frequency of the connection must correspond to the values stated on the rating plate.
- Electrical connection and any repairs may only be carried out by authorised specialist personnel.
 Use only original spare parts!
- For 1~ and 24 V (DC) fans, install the pre-fuse prescribed on the rating plate (circuit-breaker or slow fuse) to protect against short-circuiting.
- With the rotary current variant, install the pre-fuse prescribed on the rating plate or a circuit-breaker/back-up protection to protect against short-circuiting, and set it to the prescribed rating value.
- The direction of airflow and the direction of rotation are each marked on the motor housing with an arrow.
- If a phase is missing, the fan will not start. If the rotary field is incorrect, the fan will run backwards.

4.4.2 Overvoltage protection and supply line load

The unit does not have its own overvoltage protection. Measures must be taken by the operator at the supply end to ensure effective protection against lightning and overvoltage. The mains voltage must not exceed a tolerance of ±10%.

4.4.3 PE conductor connection

The PE conductor connection must be connected to the PE conductor system of the overall system.

8

5 Carrying out the electrical

5 Carrying out the electrical installation

5.1 Installing the power supply

• Complete the electrical installation by following the wiring plans.



Note:

For technical data refer to the rating plate.

 Remove the red cover from the electrical connection.

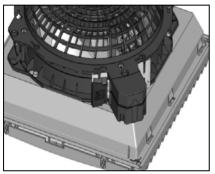


Fig. 3: Access the electrical connection

 Insert the connection cable with wire end ferrules into the screwless spring terminals. Choose an appropriate pre-fuse according to the line cross-section (2 x 0.75 – 2.5 mm² multi-wire, 2 x 1.5 – 2.5 mm² fine-wire soldered).



Caution!

If no wire end ferrules are used, the insulation of the individual wires should be stripped to a max. of 9 mm (to comply with clearance and creepage distances).

· Re-attach the electrical connection cover.

5.2 Rotating the voltage connection

If the position of the voltage connection is not ideally accessible, it may be rotated through 90° and snapped into position. To this end, press down on the release button of the bayonet connection at the rear of the

fan. Units SK 3238.xxx to SK 3239.xxx are released by pulling out the clip (see Fig. 4) of the bayonet connection.

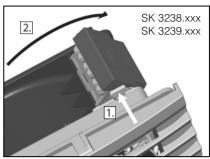


Fig. 4: Release the bayonet connection

Units SK 3240.xxx, SK 3241.xxx, SK 3243.xxx to SK 3245.xxx are released by pressing the release button of the bayonet connection (see Fig. 5), located on the opposite corner from the connection terminal.

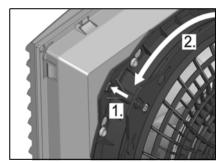


Fig. 5: Release the bayonet connection

5.3 Changing the direction of airflow

The direction of airflow blows into the enclosure from the outside as standard. Should it become necessary to change the direction of airflow for technical reasons (space, specific component air routing etc.), this is easily achieved. Simply release the fan housing and rotate it through 180°. To release, please follow the same procedure as described under "5.2 Rotating the voltage connection", page 9.

Please also observe the instructions outlined under "4.2.1 General", page 7.

6 Commissioning

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6 Commissioning

 Once all the assembly and installation work is complete, switch on the power supply to the fan-and-filter unit.

The fan-and-filter unit operates automatically, in other words, the fan will start up once the power has been switched on.

6.1 Properties

- Four voltage variants are supported:
 - 24 V DC
 - 115 V, 1~
 - 230 V, 1~
 - 400/460 V, 3-phase

7 Changing the filter

7.1 Installing the filter media

The fan-and-filter unit and outlet filter are supplied as standard with a standard filter mat for the pre-filtering of dry, coarse dust and lint. In order to increase the protection category, and in the case of dust with a grain size of < 10 µm, we recommend the use of fine filter mats (optionally available). Depending on the incidence of dust, you will need to replace the filter mat from time to time.



Caution!

Only change the filter mat while the fan wheel is stationary.

Never insert your fingers into the fan wheel.

 Use your finger to pull the function logo in the louvred grille upwards slightly to unlock it. The grille will now flip open by about 70° to allow the filter mat to be replaced easily.

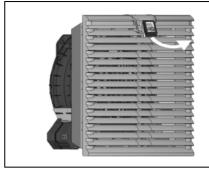


Fig. 6: Release the louvred grille

 Insert the filter mat into the louvred grille as shown in Fig. 7 and push the louvred grille back onto the enclosure until it snaps audibly into position.



Note:

The progressive side of the filter mat is pointing towards the fan wheel

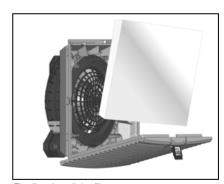


Fig. 7: Install the filter mat

8 Inspection and maintenance

8 Inspection and maintenance



Risk of electric shock!
The unit is live.
Switch off the power supply before opening, and take suitable precautions against it being accidentally switched back on.

8.1 General

The built-in, maintenance-free fan is mounted on a friction bearing (SK 3237.xxx, SK 3238.xxx and SK 3239.xxx) or ball bearing (SK 3240.xxx, SK 3241.xxx, SK 3243.xxx to SK 3245.xxx), and is protected against humidity and dust, and equipped with a temperature monitor. The life expectancy is at least 40,000 operating hours (L10, 40°C). The fan-and-filter unit is thus largely maintenance free. From time to time, the components may need to be cleaned using a vacuum cleaner or compressed air if they become visibly dirty.

Any stubborn, oily stains may be removed using a non-flammable detergent, such as degreaser.

Maintenance interval: 2000 operating hours. Depending on the level of contamination in the ambient air, the maintenance interval may be reduced to suit the air pollution intensity.



Caution!
Risk of fire!
Never use flammable liquids
for cleaning.

Sequence of maintenance measures:

- Check the level of dirt.
- Filter soiling?
 Replace the filter if necessary.
- Fan membranes soiled?
 Clean if necessary.
- Check the noise generation of the fan.
- Compressed air cleaning.

9 Storage and disposal

Caution!



Risk of damage!
The cooling unit must not be stored at temperatures above +70°C or below -30°C.

Disposal can be performed at the Rittal plant.

Please contact us for advice.

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10 Technical specifications

- Observe the mains connection data (voltage and frequency) as per the rating plate.
- Observe the pre-fuse as per the specifications on the rating plate.

	Unit	Model No. SK						
Fan-and-filter unit, RAL 7035	-	3237.100	3237.110	3237.124	3238.100	3238.110	3238.124	
EMC fan-and-filter unit, RAL 7035	-	3237.600	-	-	3238.600	-	-	
Rated operating voltage	V Hz	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Rated current max.	А	0.065/ 0.052	0.14/ 0.12	0.14	0.12/ 0.11	0.24/ 0.23	0.28	
Power consumption	W	11/9		3	19/17		6	
Pre-fuse T	Α	2						
Dimensions								
B1/H1	mm	116.5 x 116	3.5		148.5 x 148.5			
B2/H2	mm	92 x 92			124 x 124			
T1	mm	16	16					
T2 (max. installation depth)	mm	43	43			58.5		
Air throughput, unimpeded air flow	m³/h	20/25	20/25 20			55/66 55		
Air throughput		1 x 3237.20	00: 15/18		1 x 3238.200: 43/50			
with outlet filter including standard filter mat	m³/h	_			2 x 3238.200: 46/56			
Outlet filter	-	3237.200			3238.200			
EMC outlet filter	-	3237.060			3238.060			
Fan	ı		Axial, self-starting shaded pole motor				Diagonal, DC motor	
Noise pressure level	dB (A)	38/43 38		38	46/49 46		46	
Operating temperature	°C	-15 to +55						
Storage temperature	°C	-30 to +70						
Protection category (to EN 60 529)	-	IP 54 standard IP 55 with hose-proof hood IP 56 with hose-proof hood				lard nose-proof h nose-proof h		

Tab. 2: Technical specifications

Unit Model No. SK						
Fan-and-filter unit, RAL 7035	-	3239.100	3239.100 3239.110			
EMC fan-and-filter unit, RAL 7035	-	3239.600	-	-		
Rated operating voltage	V Hz	230, 1~, 50/60	115, 1~, 50/60	24 (DC)		
Rated current max.	Α	0.12/0.11	0.24/0.23	0.28		
Power consumption	W	19/17		6		
Pre-fuse T	Α	2				
Dimensions						
B1/H1	mm	204 x 204				
B2/H2	mm	177 x 177				
T1	mm	24	4			
T2 (max. installation depth)	mm	90	90			
Air throughput, unimpeded air flow	m³/h	105/120				
Air throughput		1 x 3239.200: 87/100				
with outlet filter including standard	m³/h	2 x 3239.200: 93/108				
filter mat		1 x 3240.200: 98/111				
Outlet filter	_	3239.200				
EMC outlet filter	_	3239.060				
Fan	-	Diagonal, self-starting	shaded pole motor	Diagonal, DC motor		
Noise pressure level	dB (A)	46/49	46/49 46			
Operating temperature	°C	-15 to +55				
Storage temperature	°C	-30 to +70				
Protection category (to EN 60 529)	-	IP 54 standard IP 55 with additional fine filter mat or hose-proof hood IP 56 with hose-proof hood				

Tab. 3: Technical specifications

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	Unit	Model No. SK						
Fan-and-filter unit, RAL 7035	-	3240.100	3240.110	3240.124	3241.100	3241.110	3241.124	
EMC fan-and-filter unit, RAL 7035	-	3240.600	-	-	3241.600	_	_	
Rated operating voltage	V Hz	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Rated current max.	Α	0.19/0.18	0.38/0.36	0.07	0.27/0.28	0.54/0.52	0.2	
Power consumption	W	33/33		10	42/46	43/46	25	
Pre-fuse T	А	2	4	2	4		2	
Dimensions								
B1/H1	mm	255 x 255						
B2/H2	mm	224 x 224						
T1	mm	25						
T2 (max. installation depth)	mm	107	07					
Air throughput, unimpeded air flow	m³/h	180/160		180	230/250		230	
Air throughput with		1 x 3240.200: 138/121					•	
outlet filter including standard	m³/h	2 x 3240.20	00: 165/140		2 × 3240.200: 203/230			
filter mat		1 x 3243.20	00: 165/140		1 x 3243.20	00: 203/230		
Outlet filter	-	3240.200	3240.200					
EMC outlet filter	-	3240.060	3240.060					
Fan	-	Diagonal, s shaded pol		Diagonal, DC motor	Diagonal, s shaded po	self-starting le motor	Diagonal, DC motor	
Noise pressure level	dB (A)	51/46	51/46 51			54/56 54		
Operating temperature	°C	-30 to +55						
Storage temperature	°C	-30 to +70	-30 to +70					
Protection category (to EN 60 529)	-	IP 55 with a	P 54 standard IP 55 with additional fine filter mat or hose-proof hood IP 56 with hose-proof hood					

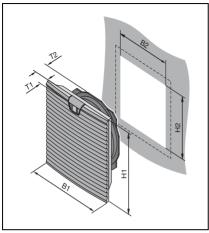
Tab. 4: Technical specifications

	Unit		Model No. SK					
Fan-and-filter unit, RAL 7035	-	3243.100	3243.110	3244.100	3244.110	3244.140	3245.500	3245.510
EMC fan-and- filter unit, RAL 7035	-	3243.600	-	3244.600	_	_	3245.600	-
Rated operating voltage	V Hz	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	400/460, 3~, 50/60	230, 1~, 50/60	115, 1~, 50/60
Rated current max.	А	0.37/ 0.43	0.75/ 0.80	0.59/ 0.81	1.0/ 1.4	0.22/ 0.24	1.3	2.5
Power consumption	W	71/89	70/80	109/155	110/156	96/138	170	170
Pre-fuse T	А	4	6	4	6	Motor circuit- breaker	4	6
Dimensions	•							
B1/H1	mm	323 x 323						
B2/H2	mm	292 x 292	!					
T1	mm	25						
T2 (max. installation depth)	mm	118.5		130.5			130.5	
Air throughput, unimpeded air flow	m³/h	550/600		700/770			900	
Air throughput with outlet filter	m³/h	1 x 3243.2 465/510	200:	1 x 3243.2 544/587	200:		1 x 3243.200: 680	
including standard filter mat	111-711	2 x 3243.2 508/548	200:	2 x 3243.2 614/662	200:		2 x 3243.200: 820	
Outlet filter	-	3243.200						
EMC outlet filter	-	3243.060						
Fan	-	Diagonal,	Diagonal, rotary current motor			Diagonal, EC motor		
Noise pressure level	dB (A)	59/61	59/61 65/68 67/70			67/70	72	
Operating temperature	°C	-30 to +55						
Storage temperature	°C	-30 to +70						
Protection category (to EN 60 529)	-	IP 54 standard IP 55 with additional fine filter mat or hose-proof hood IP 56 with hose-proof hood IP 56 with hose-proof hood IP 57 standard IP 51 standard IP 52 with addition fine filter mat IP 56 with hose-proof hood			additional mat			
Tah 5: Technica	l angoi	IP 56 with hose-proof hood IP 56 with hose-proof hoo				of hood		

Tab. 5: Technical specifications

11 Cut-out/drilling dimensions

11 Cut-out/drilling dimensions



B = WidthT = Depth

Fig. 8: Cut-out dimensions

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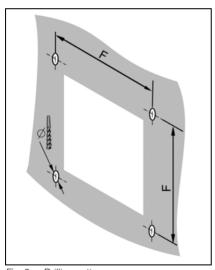


Fig. 9: Drilling pattern

Model No. SK	Ø mm	F mm
3237.xxx	3.5	100.5
3238.xxx	3.5	132.5
3239.xxx	4.5	185
3240.xxx	4.5	234
3241.xxx	4.5	234
3243.xxx	4.5	302
3244.xxx	4.5	302
3245.xxx	4.5	302

Tab. 6: Drilling dimensions

12 EMC fan/outlet filter

To achieve EMC protection, the EMC fans and EMC outlet filters should be snapped into the mounting cut-out and screwfastened using the supplied screws.

Next, the four contact foils should be stuck on all-round between the fan-and-filter unit and the inside of the enclosure as shown in the following illustration.

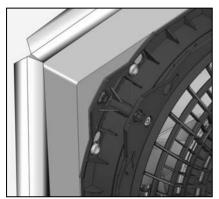


Fig. 10: EMC contact foils



Note:

Only use original EMC filter mats (see Accessories in the Rittal Catalogue).

13 Connection diagrams

EN 13 Connection diagrams

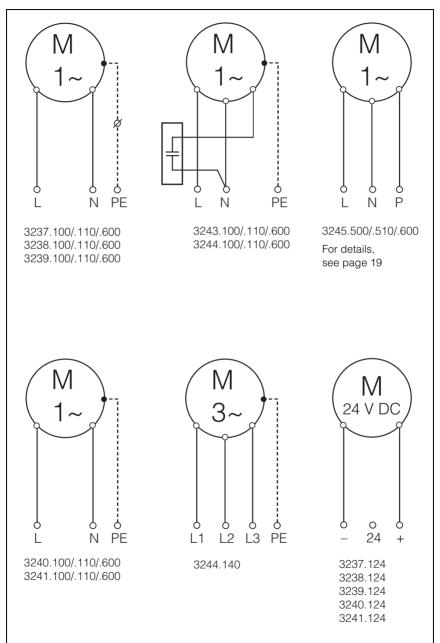


Fig. 11: Connection diagrams

13 Connection diagrams

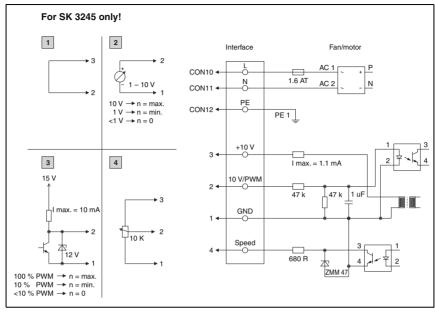


Fig. 12: Connection diagram SK 3245

- 1 Max. speed (as delivered)
- 2 Adjustable speed
- 3 Adjustable speed via PWM 1 10 kHz
- 4 Adjustable speed via potentiometer

No.	Connection	Function/Assignment
CON10	L	Power supply 200 – 240 V AC, 50 – 60 Hz
CON11	N	Neutral conductor
CON12	PE	PE conductor
1	GND	GND connection of the control interface
2	0 - 10 V/PWM	Control input 0 – 10 V or PWM, galvanically isolated, impedance 100 k Ω
3	+10 V	Voltage output 10 V max. 1.1 mA, galvanically isolated, not short circuit-protected
4	Speed	Speed output Open Collector, 1 pulse per revolution, galvanically isolated

Tab. 7: Explanations to Fig. 12

14 EC declaration of conformity

EN

14 EC declaration of conformity

EG-Konformitätserklärung Maschinenrichtlinie 2006/42/EG Anhang II A

EC Declaration of Conformity

Machinery Directive 2006/42/EC Annex II A

Hiermit erklären wir. (We hereby declare)

Rittal GmbH & Co. KG, Auf dem Stützelberg, D-35745 Herborn

dass die Filterlüfter: (that the fan-and-filter units:)

SK 3237.xxx SK 3238.xxx SK 3239.xxx SK 3240.xxx SK 3241.xxx SK 3243.xxx SK 3244.xxx

"xxx" steht für ("xxx" applies to):
100, 109, 110, 124*), 140, 600, 609, 610
**) 24 VDC Version: nicht nach NSpRI 2008/95/EG (does not comply with LVD 2006/95/EC)

folgenden Richtlinien entsprechen: (comply with the following directives:)

Maschinenrichtlinie 2006/42/EG (Machinery directive 2006/42/EC)
Elektromagnetische Verträglichkeit 2004/108/EG (Electromagnetic compatibility 2004/108/EC)

Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese EG-Konformitätserklärung ihre Gültigkeit.

This declaration of EC conformity shall become null and void when the assembly is subjected to any modification that has not met with our approval.

Herborn, 29.9.2010

Verantwortlich für Dokumentation (Responsible for documentation)

Rittal GmbH & Co. KG Auf dem Stützelberg D-35745 Herborn Dr. M. Lang
Leitung Qualitätsmanagement
(Vice President Quality Management)

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5th edition 11.2011 / ID no.: 328 628 / Drawing no.: A 4474200SK23

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